Appl. No. 09/782,650 Amdt. dated March 20, 2006 Amendment under 37 CFR 1.116 Expedited Procedure Examining Group 1635

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A chimeric molecule comprising a peptide angiogenic factor covalently linked to a targeting peptide capable of specifically binding to cardiac vascular endothelium, and wherein the targeting peptide comprises the [[a]] targeting peptide sequence GGGVFWQ (SEQ ID NO:1), HGRVRPH (SEQ ID NO:2), VVLVTSS (SEQ ID NO:3), CLHRGNSC (SEQ ID NO:4), or [[and]] CRSWNKADNRSC (SEQ ID NO:5) or a and their functionally equivalent peptide sequence, wherein the functionally equivalent peptide sequence differs from the targeting peptide sequence by a single conservative amino acid substitution. sequences having one or two conservative amino acid substitutions.

Claim 2 (original): The chimeric molecule of claim 1, wherein the angiogenic factor specifically binds to at least one of VEGF-R1, VEGF-R2, or VEGF-R3.

Claim 3 (previously presented): The chimeric molecule of claim 1, wherein the targeting peptide is selected from the group consisting of GGGVFWQ (SEQ ID NO:1), HGRVRPH (SEQ ID NO:2), VVLVTSS (SEQ ID NO:3), CLHRGNSC (SEQ ID NO:4), and CRSWNKADNRSC (SEQ ID NO:5).

Claim 4 (original): The chimeric molecule of claim 1, wherein the angiogenic factor is vascular endothelial growth factor A (VEGF-A), vascular endothelial growth factor A_{121} (VEGF- A_{121}), vascular endothelial growth factor A_{145} (VEGF- A_{145}), vascular endothelial growth factor A_{165} (VEGF- A_{165}), vascular endothelial growth factor A_{189} (VEGF- A_{189}), vascular endothelial growth factor A_{206} (VEGF- A_{206}), vascular endothelial growth factor B (VEGF-B), vascular endothelial growth factor B_{167} (VEGF- B_{167}), vascular endothelial growth factor B_{186} (VEGF- B_{186}), vascular endothelial growth factor C (VEGF-C), vascular endothelial growth

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factor D (VEGF-D), vascular endothelial growth factor E (VEGF-E), placental growth factor (PIGF), acidic fibroblast growth factor (aFGF), basic fibroblast growth factor (bFGF), or angiopoietin-1 (Ang1).

Claim 5 (original): The chimeric molecule of claim 1, wherein the angiogenic factor is Ang2, endostatin or angiostatin.

Claim 6 (currently amended): The chimeric molecule of claim 1, wherein the molecule is a <u>fusion</u> protein having an amino acid sequence which comprises a first subsequence having the amino acid sequence of the peptide angiogenic factor and a second subsequence having the amino acid sequence of the targeting peptide.

Claim 7 (previously presented): The chimeric molecule of claim 6, wherein the angiogenic factor is VEGF-B, vascular endothelial growth factor B_{167} (VEGF- B_{167}), vascular endothelial growth factor B_{186} (VEGF- B_{186}), or vascular endothelial growth factor C (VEGF-C).

Claims 8-27 (canceled).

Claim 28 (original): A pharmaceutical composition comprising the chimeric molecule of claim 1 and a pharmaceutically acceptable carrier.

Claim 29 (previously presented): A pharmaceutical composition comprising the chimeric molecule of claim 6.

Claim 30 (previously presented): The chimeric molecule of claim 1, wherein the angiogenic factor is a VEGF homolog.

Claim 31 (previously presented): The chimeric molecule of claim 30, wherein the targeting peptide is selected from the group consisting of GGGVFWQ (SEQ ID NO:1), HGRVRPH (SEQ ID NO:2), VVLVTSS (SEQ ID NO:3), CLHRGNSC (SEQ ID NO:4), and CRSWNKADNRSC (SEQ ID NO:5).

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Claim 32 (previously presented): A pharmaceutical composition comprising the chimeric molecule of claim 2 and a pharmaceutically acceptable carrier.

Claim 33 (previously presented): A pharmaceutical composition comprising the chimeric molecule of claim 3 and a pharmaceutically acceptable carrier.

Claim 34 (previously presented): A pharmaceutical composition comprising the chimeric molecule of claim 4 and a pharmaceutically acceptable carrier.

Claim 35 (previously presented): A pharmaceutical composition comprising the chimeric molecule of claim 30 and a pharmaceutically acceptable carrier.

Claims 36 to 38 (canceled).

39 (new). The chimeric molecule of claim 3 wherein the angiogenic factor specifically binds to at least one of VEGF-R1, VEGF-R2, or VEGF-R3.

40 (new). The chimeric molecule of claim 3, wherein the angiogenic factor is vascular endothelial growth factor A (VEGF-A), vascular endothelial growth factor A_{121} (VEGF- A_{121}), vascular endothelial growth factor A_{145} (VEGF- A_{145}), vascular endothelial growth factor A_{165} (VEGF- A_{165}), vascular endothelial growth factor A_{189} (VEGF- A_{189}), vascular endothelial growth factor A_{206} (VEGF- A_{206}), vascular endothelial growth factor B (VEGF-B), vascular endothelial growth factor B_{186} (VEGF- B_{186}), vascular endothelial growth factor B_{186} (VEGF- B_{186}), vascular endothelial growth factor D (VEGF-D), vascular endothelial growth factor D (VEGF-D), vascular endothelial growth factor (PIGF), acidic fibroblast growth factor (aFGF), basic fibroblast growth factor (bFGF), or angiopoietin-1 (Ang1).

41 (new). The chimeric molecule of claim 3, wherein the angiogenic factor is Ang2, endostatin or angiostatin.